

Fig 2a -1

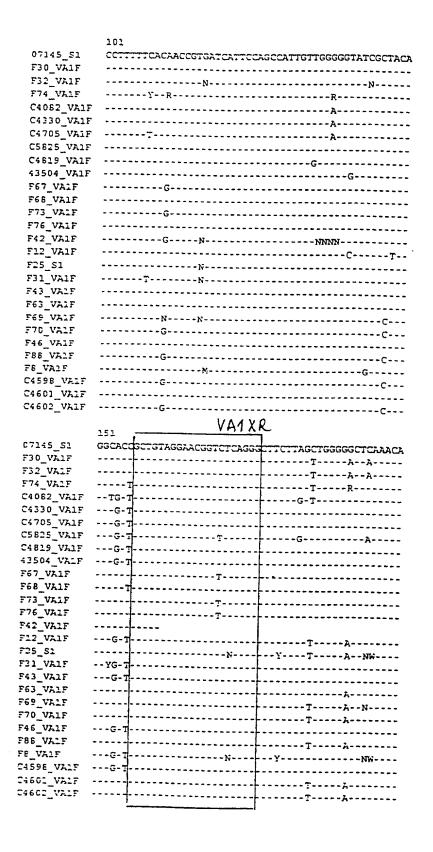


Fig 2a -2

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H. R., R. Pr. Com Con. P. (The day had cold thin had be
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		VA1-R
	201	
07145_S1	AGCCGAAGAAGCCAATAAAACCCCAGATAAACCCGATAAAGTTTGGCGCA	
F30_VA1F		-
F32_VA1F	***************************************	
F74_VA1F		
C4082_VA1F	*****	
C4330 VA1F		
C4705 VA1F		
CS825_VA1F		
C4619_VA1F		
43504 VA1F		
F67_VA1F	*****	
F66_VA1F	YSG	
F73_VA1F		
F76_VA1F	C	
F42 VA1F		
F12_VA1F		
F25_S1	******	
F31_VA1F		
F43 VA1F		
F63_VA1F		
F69_VA1F	·	
F70 VAIF		
f46_Valf		
F88_VA1F		
FB VALF		
C4598_VA1F		
C4601 VA1F		
C4602_VA1F	·	
~		
	251 C .0 NO	
07145_S1	TTCAAGCAG Seq 10 N°	
F30_VA1F	40	
F32_VA1F		
F74_VA1F	<b>49</b>	
C4082_VA1F		
C4330_VAlF	45	
C4705_VALF	46	
C5825_VA1F	41	
C4819_VA1F	4 8	
43504_VA1F F67_VA1F	49	
F6E_VAIF	5 <i>o</i>	
F73_VA1F	5 <i>\lambda</i>	
F76_VA1F	5 %	
F42_VA1F	53	
F12_VA1F		
F25_S1	<u> </u>	
F31_VA1F	5 4 5 5 5 6	
F43_VA1F	<del></del> 5 7	
F63_VA1F	58	
F69 VA1F	<u> </u>	
F70_VA1F	A-TC-AG	
F46_VA1F	6 1	
FB6_VAlF	62	
FE_VA1F	63	
C4598_VA1F		
C4601_VA1F		1
C46CC_VA1F		

Fig 2a - 3

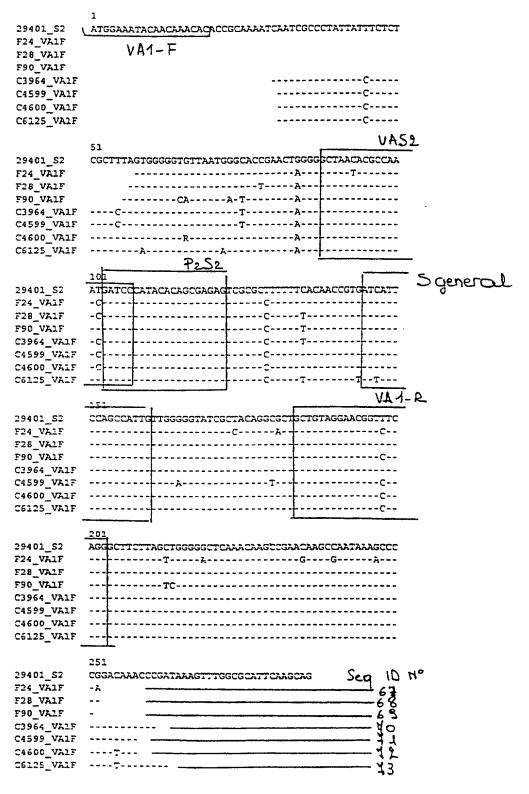


Fig 2b-1

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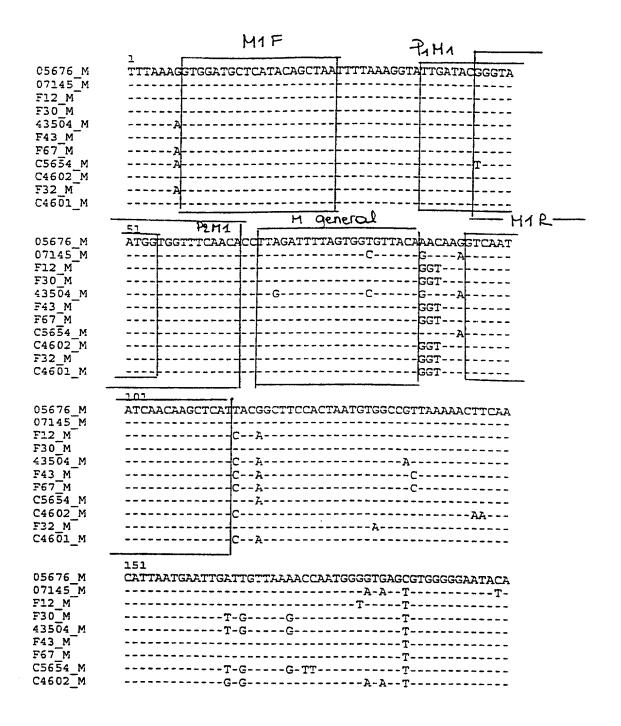


Fig 3a-1

F32_M	T-GGTT
C4601_M	A-AT
	201
05676 M	CTCATTTTAGCGAAGATATAGGCAGTCAATCGCGCATCAATACCGTGCGT
07145 M	
F12_M	
F30 M	
43504 M	
F43_M	
F67 M	
C5654 M	T
C4602 M	
F32 M	
C4601_M	AA
	251
05676 M	TTGGAAACTGGCACTAGGTCAATCTTTTCTGGGGGTGTCAAATTTAAAAG Scq 10 110
07145 M	
F12 M	T
F30 M	45
43504_M	A
F43_M	ACT
F67 <u></u> M	T
C5654_M	
C4602_M	A
F32_M	
C4601_M	
	5 — 8 <del>L</del>

Fig 3a - 2

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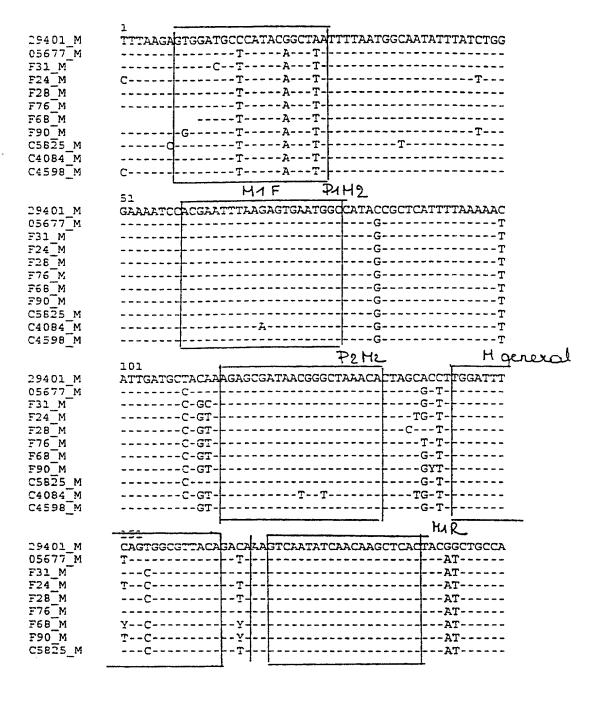


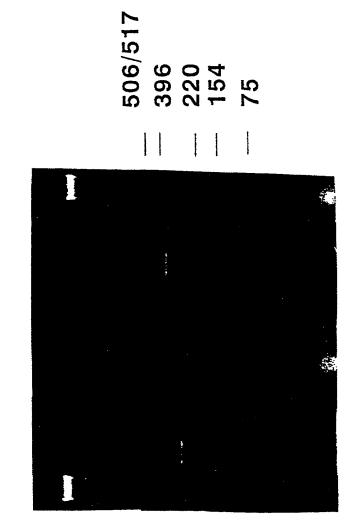
Fig 3b-1

C4084 M	GCA
C4598 M	GCAATAT
C4330_W	1-1-C-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
	201
29401 M	CTAATGTGAATATTAAAAACTTTGACATTAAGGAATTGGTGGTTACAACC
_	AA
05677_M	
F31 M	
F24 M	
_	AA
F28_M	
F76_M	CG
F6B M	AA
F90 M	Y
_	
C5825_M	
C4084_M	AG
C4598 M	******************
-	-
	251
29401 M	CGTGTTCAGAGTTTTGGGCAATACACTATTTTTGGCGAAAATATAGGCGA
05677 <sup>M</sup>	AA
F31 M	
F24_M	AA
F28 M	A
F76 M	
F68 M	-AA
	AA
F90_M	
C5825_M	AA
C4084 M	A
C4598 M	AA
	301
29401 M	TAAGTCTCGCATTGGTGTCGTGAGTTTGCAAACGGGATATAGCCCGGCCT
05677 M	T
F31 M	
F24_M	
F28_M	CTG-AA
F76 M	
F68 M	
F90 M	-MR
C5825_M	
C4084 M	-C-AGTTTCTC
C4598 M	
_	
	252
	351
29401_M	ATTCTGGGGGCGTTACTTTTAAAGG Scq ID N°
05677 <sup>-</sup> M	A-
F31 M	
F24_M	A- — & 4
F28_M	
F76 M	Q L
F68_M	
F90 M	01
	× × × × × × × × × × × × × × × × × × ×
C5825_M	
C4084_M	
C4598 M	a 1
	JX

Fig 3b-2

Gastric biopsy 18

MABCDEFGM

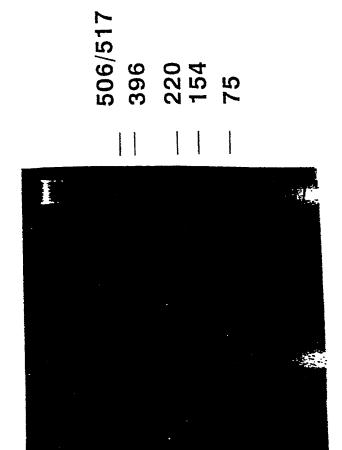


F19. 4

H H H H

MABCDEFG

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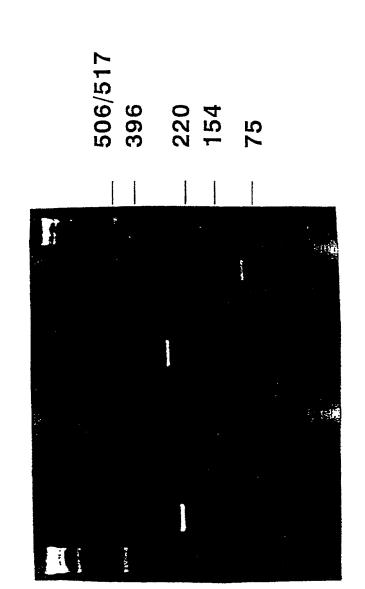


t.g. 5

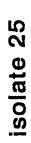
isolate F67

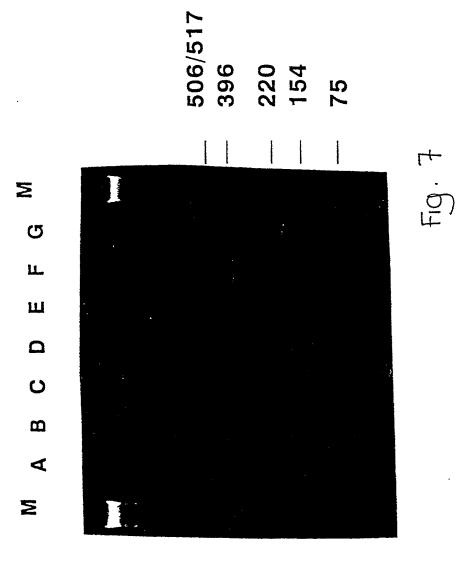
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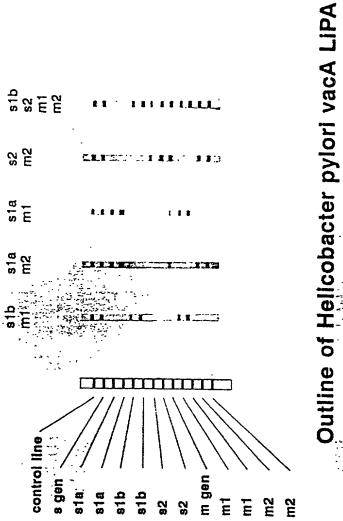
MABCDEFGM



F19.6







multiplex PCR vacA s/m and cagA



CagSF (seq id no 19; fwd)

START ORF

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ATGACTAACGAAACCATTAA-CCAACAACC-CACAAAG	ATGACTAACGAAACCATTAA-CCAACAACCACAAAC	ATGGCTAACGAAACTATTAA-CCAACAACCACAAAC	ATGACTAACGAAACCATTAA-CCAACAACCACAAAC	CAACAACCACAAAC	CAACAACCACAAAC	CAACAACCACAAAC	CAACAACCACAAAC	ATGACTAACGAAACCATTAA-CCAACAACCACAAAC	-CAACAACCACAAAC	CACAAAC	ATGACTAACGAAACTATTAA-CCAACAGCCACAAAC				בייייייייייייייייייייייייייייייייייייי		TGACTAACGAAACTATTGATCAAACAAGAACACCAGACCAAACACAAAG	TGACTAATGAAACCATTGATCAAACAACAACACCAGATCAAACACCAAA		TGACTAACGAAACCATTGATCAAACAACAACAACAGATCAAAAAAAA	TGACTAACGAAACCATTGATCAAACAACAACAACAGATCAAAAAAAA	TGACTAACGAAACCATTGATCAAACAACAACAACAAGATCAAAAAAAA			*** *** *** *** * * * * * * * * * * *
AMST7001C2	AMS23001C2	8832001C2	AUS10001C2	HPCAICEU2	AMS45001C2	AM79001C2	AUS5001C2	AUS21RCAG2	116001C2	A19001C2	117001C2	AM82001C2	AUS1001C2	HPMAJCEU2	AM105001C2	J123001C2	J39001C2	HK7001C2	HK12001C2	HK8001C2	CH2001C2	CH4001C2	HK9001C2	8828001C2	

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Alignment of cagA nucleic acid sequences

Figure 10

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CGAAGCGGCTTTTAACCCGCAGCAATTTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCCGCAGCAATTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTTATCAATAATCTTCAAGTGGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTGGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTAATCAATAATCTTCAAGTAGTAGCTT	CGAAGCGCCTTTTAACCCGCAGCAATTTAATTAATAATCTTCAGGTAGCTT	TGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTGGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTAGCTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTCAAGTGGCTTT	CGAAGCGGCTTTTAACCCGCAGCAATTTATCAATAATCTTAACTTAAACTTCCCTT	CGAAGCGGCTTTTAACCCCGCAGCAATTTAATCAATAATTAAT	CGAAGCGGCTTTTAACCCGCAGCAATTTAATCAATAATTAAT	CGAAGCGCTTTTAACCCGCAGCAATTTATCAAATTAATAATCAAAAAAAA	CCAAACAGCTTTTGATCCGCAACAATTTATCAATAATTATCAATTAATAATTAAT	TCAAACAGATTTTGTTCCGCAACGATTTTATCAATAATCTTCAAAAAAAA	CCAAACGGATTTTGTTCCGCAACGATTTTATCAATAATCTTCAAAAAACGATTTTA	CCAAACAGATTTTGTTCCGCAACGATTTTATCAATAATCTTCAAAAAAAA	TCAAACAGATTTTGTTCCGCAACGATTTTATCAATAAATCTTAAAAAAAA	TCAAACAGATTTTGTTCCGCAACGATTTTATCAATAATCTTACAAAAAAAA	CCAAACGGATTTTGTTCCGCAACGATTTAATCAATAATCTTCAATAAACGAATTTTAATAATCAATTTTAATAATAATAATAAATA		
AMST7001C2	AMS23001C2	883200102	AUS10001C2	HPCAICEU2	AMS45001C2	AM79001C2	AUS5001C2	AUS21.RCAG2	116001C2	AI9001C2	I17001C2	AM82001C2	AUS1001C2	HPMAJCEU2	AM105001C2	J123001C2	J39001C2	HK7001C2	HK12001C2	HK8001C2	CH2001C2	CH4001C2	HK9001C2	882800102	1111

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AMCTOOL	AMS23001C2	8832001C2	AUS10001C2	HPCAICEU2	AMS45001C2	AM79001C2	AUS5001C2	AUS21RCAG2	116001C2	AI9001C2	117001C2	AM82001C2	AUS1001C2	HPMAJCEUZ	AM105001C2	J123001C2	J39001C2	HK7001C2	HK12001C2					8828U01C2	7

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185 185 185 185 185 185 185 185 185 185 185 200 200 200 200 200 200 200 ATCGTTGATAAGAACGATAGGGATAATAGGCAAGCTTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAATAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGAAGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATAGAATCTC ATTATTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCATTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATAGAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAATAGGCAGGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGAGGGAATCTC ATCGTTGATAAGAACGATAGGGATAACAGGCAAGCTTTTGATGGAATCTC ATCGTTGATAAGAATGATAGGGATAATAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC ATCGTTGATAAGAATGATAGGGATAACAGGCAAGCTTTTGAGAAAATCTC AMST7001C2 AMS23001C2 AUS10001C2 AMS45001C2 AUS21RCAG2 AM105001C2 8832001C2 HPCAICEU2 AM79001C2 AUS5001C2 AM82001C2 HPMAJCEU2 AUS1001C2 J123001C2 HK12001C2 I16001C2 I17001C2 8828001C2 AI9001C2 J39001C2 HK7001C2 CH2001C2 HK8001C2 CH4001C2 HK9001C2

cagFN1 (seq id no

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(Tummuru<sup>1</sup>)

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cagprobe3 (seq id no 27)

cagR (seq id no 13)

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285 285 285 285 285 285 285 285 285 285 285 285 285 300 300 300 300 300 300 300 AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTTCAAACTTTATCAATAAGAGCAATGATCTAATCAAC AGAATCAGTATTTTCAGACTTTATCGATAAGAGCAACGATTTAATCAAC AGAATCAGTATTTTTCAGACTTTATCGATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCGATAAGAGCAACGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTFATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCGATAAGAGCAACGATTTAATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTAATCAAC AGAATCAGTATTTTCAGACTTTTATCAATAAGAGCAATGATCTAATCAAC AGAATCAGTATTTTTCAAGCTTTTATCAGTAAGAGCAGTGATTTAATCAAC AGAATCAGTATTTTCAAGCTTTATCAGTAAGAGCAGTGATTTAGTCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGAGCAATGATTTGATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTGATCAAC AGAATCAGTATTTTCAGACTTTATCAATAAGACCAATGATTTGATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGACCAATGATTTGATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTGATCAAC AGAATCAGTATTTTTCAGACTTTATCAATAAGAGCAATGATTTGATCAAC AGAATCAGTATTTTTAGACTTTATCAATAAGAGCAATGATTTGATCAAC AMST7001C2 AMS23001C2 AUS10001C2 AMS45001C2 AUS21RCAG2 8832001C2 AM105001C2 HPCAICEU2 AM79001C2 AUS5001C2 HPMAJCEU2 AM82001C2 AUS1001C2 J123001C2 HK12001C2 I16001C2 AI9001C2 8828001C2 I17001C2 J39001C2 HK7001C2 CH4 001C2 HK9001C2 HK8001C2 CH2001C2

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AAAGACGCTCTCATTGATG'IAGAATCTTCCACAAAGAGCTTTTCAGAAATT	AAAGACGCTCTCATTGATGTAGAATCTTCCACAAAGAGCTTTCAGAAATT	AAAGACGCICICATIGATGTAGAATCTTCCACAAAGAGCTTTCAGAAATT	AND	A A A A A A A A A A A A A A A A A A A	AD A CATACHCHICATING THE CANADA CANAD	AAAGACGCICICAIIGIIGIIGIIGAAATCTTCCACAAAGAGCTTTCAGAAATT	AAAGACAATCTCATIGATCAACAATCTTCCACAAAGAGAGAGAATT	AAAGAGCTCTCTCATTCATCATCATCATCATCATCATCATCATCAT	AAAGA COCHCHON THOUNG AN AMARKA AT A COACAIAGA CATT CAGAAATT	TO A CALCICAL IGALGIAGAATCITCACAAAGAGCTTTCAGAAATT	AAAGACAATCICATTGATGTAGAATCTTCCACAAAGAGCTTTCAGAAATT	AAAGACAATCTCATTGATGTAGAATCTTCCACAAAGAGCTTTCAGAAATT	AAAGACAATCTCATTGATATAGGTTCTTCCATAAAAAGCTTTCAGAAAT	AAAGACAATCTCATTGTCGTGGAATCTTCCACAAAGAGCTTTTCAAAAAAAA	AAAGACAATCTCATTGATGTAGAATCTTCCACAAAAAAAA	AAAGACAGTCTCATTGATACAGGTTCTTGCATAAAAAAAA	AAAGACAGTCTCATTCATACATACACATACAGAGAGAGAG	AAAGACAATICTICATITACTICTICATICATICATICATICAT	AAAGACAATCTCATTGCTGTAAATTCATTGTAAAATT	AAAGA CAACHCACAACAACAACAACAACAACAACAACAACAAAATT		AAAGACATTAAGATTCTTCCGTAGAGCTTTAAGAATT	AAAGACAATCTCATTGCTGTAGATTCCTTCCGTAGATAGCTTTAAGAAATT	AAAGACAATCTCATTGCTGTAGATTCCTTCCGTAGATAGCTTTTAAGAAATT	AAAGACAATCTCATTGCTGTAGATTCTTCCGTAGATAGCTTTTA
AMST7001C2	AMSZ3UOLCZ RR30001C2	AUSTOOOTC	HPCATCEILS	AMS4500102	AM7900102	AUS 5001C2	AUS21RCAG2	T.16001C2	A19001C2	T17001C2	20100111 CD-COCC0201	AMOZOUICZ	AUS1001C2	HPMAJCEU2	AM105001C2	J123001C2	J39001C2	HK7001C2	HK12001C2	HK8001C2	C71007H2		TACOLOG	TIVE OUT CZ	882800102

P 0.3 P 0.7 C. P

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AMS23001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGGTGTCCCATCAAAACC	α
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AUS10001C2	TIGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAAACC	000 100
HPCAICEU2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAACG	100 100
AMS45001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAACG	0 0 0 1 0 1
AM79001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGGTGTCTCCATCAAAACG	א ני די
AUS5001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCTCCATCAAAACG	ი ი ი ი
AUS21RCAG2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAACG	1 d C
I16001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAACG	ט ג ה מ
AI9001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAGG	) (C
117001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAAG	) ( ) ( ) (
AM82001C2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAAC	יי מי מי
AUS1001C2	TGGGACTCAGCGTTACCGAATTTTCACAAGTTGGGTGTCCCATCAAAACC	יו ספט עור
HPMAJCEU2	TGGGGATCAGCGTTACCGAATTTTCACAAGTTGGGTGTCTCCAAGAAAAAAA	n 10 0
AM105001C2	TGGGGATCAGCGTTACCAAATTTTCACAAACTTCACAAAACG	385
J123001C2	TGGGACTCAGCGTTACCAAAAAAAAAAAAAAAAAAAAAA	385
J39001C2	TGGGACTCAGGGTTTACCAAAAAAAAAAAAAAAAAAAAA	385
HK7001C2	TGGGGATCAGGGTTA CONTRACTANT TO A THE CONTRACTOR OF THE CONTRACTOR	400
HK12001C2	TGGGGATCAGGGTTACCAAAAAAAAAAAAAAAAAAAAAA	400
HK8001C2	TGGGGAPTAGGGTTAACAAAAAAAAAAAAAAAAAAAAAAA	400
CH2001C2	TOCOCONTON COMMINATION OF A MEMBER 2 CONTOCOLOR AND A MEMBER 2 CONTOCO	400
CH400102	TOGGS HOLD CACCAL TACCAAATTTTTACGAGTTGGGTGTCCCTTCAAAAG	400
UVOO102	ISGGGALCAGCGITACCAAATTTTACGAGTTGGGTGTCCCTTCAAAAAG	400
OCCUPATION OF THE	1456641.CAGCGTTACCAAATTTTACGAGTTGGGTGTCCCTTCAAAAG	400
882800102	TGGGGATCAGCGTTACCAAATTTTTACGAGTTGGGGTGTCCCTTCAAAAAG	400
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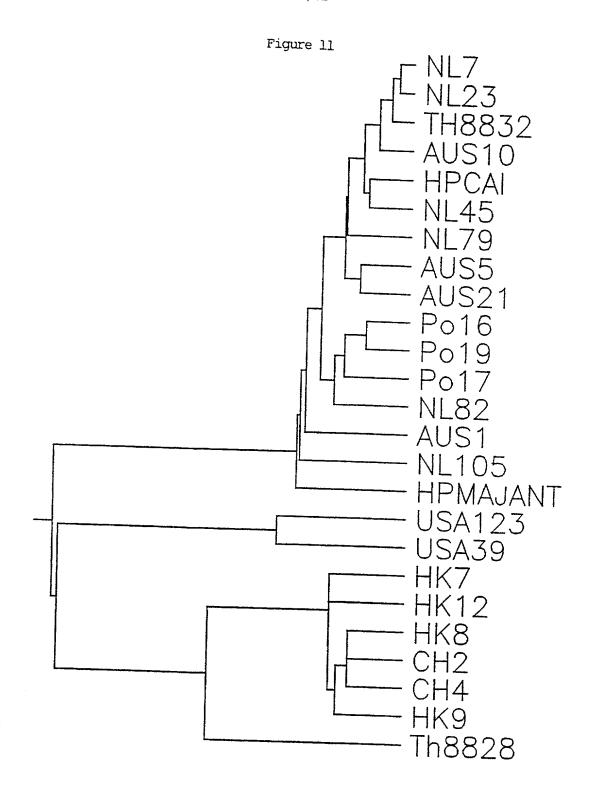
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and s2 sequences

Alignment of vacA s1

Figure 12

**\$2** 

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ACTGG A- A- A- A- A- A-	
GGGGGTGTTAATGGGCACCGA	T-AGG-CAT-AC
CCCTATTATTTCTCTCGCTTTAGTGGGGGTGTTAATGGGCACCGAACTGG	- T-AG
29401_SSEQ CC C3964_SSEQ CC C4599_SSEQ T24_SSEQ J262001 F28_SSEQ AUS24001 C4600_SSEQ AUS15001 F90_SSEQ T54001	HK43001 N3001 HK51001 HK41001 HK45001 95_24001 TH8835001 TH8828001 95_20001 HK48001 HK44001 HK44002 HK44002

C-AGG-CAT-ACC-AGG-CAT-ACC-AGG-CAT-ACC-AGG-CAT-ACT-AGG-CAT-AC	-CAA-CGTATATCAA-CGTA-TGATCAA-CGTA-GATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTATATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTAGATCAA-CGTA-TGATCAA-C	り ゼT り フ - で
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51  GGGCTAACACGCCAAATGATCCCATACACAGCGAGAGTCGCGCTTTTTTC TTTTTTTTTTTTTTTTTTTTTTTTTT	-AAA-AGTGTCCT -AAA-AGTGTCCTAA-AGTGTCCTAA-AGTGTCCTAA-AGTGTCCTAA-AGTGTCCTAA-AGTGTCCTAA-AGTGTCTAA-AGTGTCTAA-AGTGTCTAA-AGTGTCTAA-AGTGTCT
51 GGGCTAAC	
29401_SSEQ C3964_SSEQ C4599_SSEQ T262001 F28_SSEQ AUS24001 C4600_SSEQ AUS15001 F90_SSEQ J154001 CR3001	HK43001 N3001 HK51001 HK41001 HK35001 95_24001 TH8835001 TH8835001 HK46001 HK46001 HK44002 HK42001

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51AA-AGTGCCT -AAA-AGTGCCT -AAA-AGTGCCT -AAA-AGTGCCT	ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב ב	TC	D	-GA-AGTT	-GAGAG-T		-CA-AGTG	i i	0		CA-AGTG	1 1	1 1 1	1 [ ]	1	[ 	1	-GAGAGT	† } †
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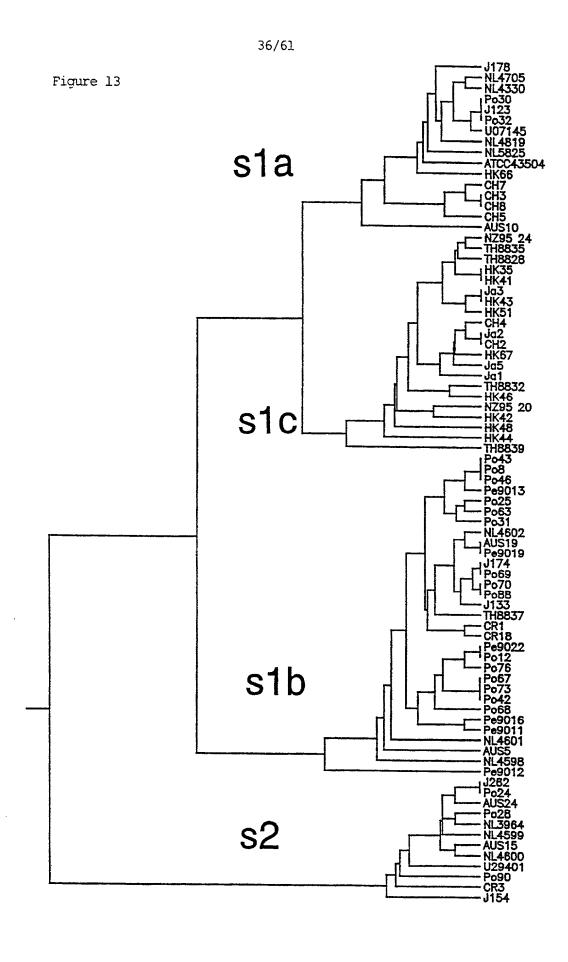
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51		CAGAGTGGGG		CP			GAGAGTGCCT		ACA-AGTG		51	CA-AGTGGCA-AGTG			CA-AGTG								D		: : : : : : : : : : : : : : : : : : :	- D	D	
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F63_SS		(sed id no 174)
31_S		eq id no 17
12_S	GNNNN	ed id no 17
120	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ed id no 17
sla		
71		(Genbank U07145)
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S		eq id no 17
330_	:	eq id no 18
705_S		eq id no 18
78001		ed id no 18
504_S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	eq id no 18
819		ed id no 18
825_S		ed id no 18
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300	)	ed id no 18
800	)	ed id no 19
H7	)	(sed id no 191)
SS	1. R	ed id no 19
AUSIOOOI	)	q id no 19



Alignment of vacA m-region nucleic acid sequences	GTGGATGCCCATACGGCTAATTTTAATGGCAATATTTATCTGGGAAAATC	TTAT	TTAT		TT	TTATT	TTT	TT	TTT	TT	TTTTT	TTTT	TTAT		TTTTTTT	TTT		TT	TATT		TAT			TAT	TAT		
Figure 14	29401_M 05677_M	HK43001	HK66001	NIAI001	NSAI001	C5825_M	CE91C001	C4598_M	F68 M	HK42001	HK54001	HK33001	IIK52001.	HK50001	HK29001	HK47001	HK51001	CE192C001	F76_M	HK35001	C4084_M	N2 2001	CR3001	AUS5001	J154001	F31_M	J123001

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HK30001	-C-AGCT	DL	A-A
HK67002	-C-AGCT	DL	A-A
HK49001	-C-AGCT	TC	AA
HK48001	AC-AGCT	DL	A-A

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C4601 M	TAG-GG-	CA	A	B	AAG-C-AG
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CH5001	TACG-GG	CA	A	G	AG-C-AG

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CR1001	TBB-TT	CAA-		C-AG
CR18001		AA-	BAG-	C-AG
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NIP76001	BBL	CAA-	AGAG-	C-AG
NIP32001	TG-G	CAA-	BAG-	C-AG
N3AII001	TG-G-GT	CAA-		C-AG
AUS1001	TG-GT	AA-	B	C-AG
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J178001	TAG-GG-	CAA-	G AG-	C-AG
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NSBOOL	TAG-GG	AA-		C-AG
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HK39001	TAG-GG-	AA-	G-G	C-AG
CH8001	TACG-GG	CAA-	GAG-	C-AG
HK44001	TAG-GG-	AA-	AA	C-AG
HK45001	TAG-GG	AA-		C-AG
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	ank U294	(Genbank U05677)	(sed id no 194)	d no 19		d no 1	9	d no 19	d no 20	d no 2	d no 20	d no 20	d no 20	d no 2	d no 20	d no 20	d no	d no 20	d no 21	d no 21	d no 21		(seq id no 214)	(sed id no 215)	(sed id no 216)	d no 2	d no 21	(sed id no 219)
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(seg id no 220)	id no 22	bes)	(seq id no 22	(seq id no 224)	(seg id no 22	(seq id no 226)	s)	d no 22	(seq id no 229)	bes)	(seq id no 23	(seg id no 23	id no 233	no 23	(seq id no 23	(seq id no 23	(seg id no 2	(Genbank U071	(Genbank U0567	(sed id no	(seg id no 2	(seq id no 240)	(seq id no 241)	(seq id no 242)	(seq id no 243)	(seq id no 244)	/C (12 17 17 17 17 17 17 17 17 17 17 17 17 17	Z OII DT has \
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